

Sequence Listing.ST25  
SEQUENCE LISTING

<110> SYRRX, INC.

<120> PROBE, ASSAY AND KITS FOR DETECTING 11 $\beta$ -HYDROXYSTEROID  
DEHYDROGENASE AND MODULATORS THEREOF

<130> SYR-HSD-5002

<140> Not Yet Assigned

<141> 2004-03-11

<160> 7

<170> PatentIn version 3.2

<210> 1

<211> 292

<212> PRT

<213> Homo sapiens

<220>

<221> Amino acid sequence for full-length human wild type  
11 $\beta$ -hydroxysteroid dehydrogenase

<222> (1)..(292)

<400> 1

Met Ala Phe Met Lys Lys Tyr Leu Leu Pro Ile Leu Gly Leu Phe Met  
1 5 10 15

Ala Tyr Tyr Tyr Tyr Ser Ala Asn Glu Glu Phe Arg Pro Glu Met Leu  
20 25 30

Gln Gly Lys Lys Val Ile Val Thr Gly Ala Ser Lys Gly Ile Gly Arg  
35 40 45

Glu Met Ala Tyr His Leu Ala Lys Met Gly Ala His Val Val Val Thr  
50 55 60

Ala Arg Ser Lys Glu Thr Leu Gln Lys Val Val Ser His Cys Leu Glu  
65 70 75 80

Leu Gly Ala Ala Ser Ala His Tyr Ile Ala Gly Thr Met Glu Asp Met  
85 90 95

Thr Phe Ala Glu Gln Phe Val Ala Gln Ala Gly Lys Leu Met Gly Gly  
100 105 110

Leu Asp Met Leu Ile Leu Asn His Ile Thr Asn Thr Ser Leu Asn Leu  
115 120 125

Phe His Asp Asp Ile His His Val Arg Lys Ser Met Glu Val Asn Phe  
130 135 140

# Sequence Listing.ST25

Leu Ser Tyr Val Val Leu Thr Val Ala Ala Leu Pro Met Leu Lys Gln  
145 150 155 160

Ser Asn Gly Ser Ile Val Val Val Ser Ser Leu Ala Gly Lys Val Ala  
165 170 175

Tyr Pro Met Val Ala Ala Tyr Ser Ala Ser Lys Phe Ala Leu Asp Gly  
180 185 190

Phe Phe Ser Ser Ile Arg Lys Glu Tyr Ser Val Ser Arg Val Asn Val  
195 200 205

Ser Ile Thr Leu Cys Val Leu Gly Leu Ile Asp Thr Glu Thr Ala Met  
210 215 220

Lys Ala Val Ser Gly Ile Val His Met Gln Ala Ala Pro Lys Glu Glu  
225 230 235 240

Cys Ala Leu Glu Ile Ile Lys Gly Gly Ala Leu Arg Gln Glu Glu Val  
245 250 255

Tyr Tyr Asp Ser Ser Leu Trp Thr Thr Leu Leu Ile Arg Asn Pro Cys  
260 265 270

Arg Lys Ile Leu Glu Phe Leu Tyr Ser Thr Ser Tyr Asn Met Asp Arg  
275 280 285

Phe Ile Asn Lys  
290

<210> 2  
<211> 286  
<212> PRT  
<213> Custom

<220>  
<221> Amino acid sequence for residues 24-292 of 11 $\beta$ -hydroxysteroid  
dehydrogenase with a N-terminal MKHQHQHQHQHQHQPL tag  
<222> (1)..(286)

<400> 2

Met Lys His Gln His Gln His Gln His Gln His Gln His Gln Pro  
1 5 10 15

Leu Asn Glu Glu Phe Arg Pro Glu Met Leu Gln Gly Lys Lys Val Ile  
20 25 30

# Sequence Listing.ST25

Val Thr Gly Ala Ser Lys Gly Ile Gly Arg Glu Met Ala Tyr His Leu  
35 40 45

Ala Lys Met Gly Ala His Val Val Val Thr Ala Arg Ser Lys Glu Thr  
50 55 60

Leu Gln Lys Val Val Ser His Cys Leu Glu Leu Gly Ala Ala Ser Ala  
65 70 75 80

His Tyr Ile Ala Gly Thr Met Glu Asp Met Thr Phe Ala Glu Gln Phe  
85 90 95

Val Ala Gln Ala Gly Lys Leu Met Gly Gly Leu Asp Met Leu Ile Leu  
100 105 110

Asn His Ile Thr Asn Thr Ser Leu Asn Leu Phe His Asp Asp Ile His  
115 120 125

His Val Arg Lys Ser Met Glu Val Asn Phe Leu Ser Tyr Val Val Leu  
130 135 140

Thr Val Ala Ala Leu Pro Met Leu Lys Gln Ser Asn Gly Ser Ile Val  
145 150 155 160

Val Val Ser Ser Leu Ala Gly Lys Val Ala Tyr Pro Met Val Ala Ala  
165 170 175

Tyr Ser Ala Ser Lys Phe Ala Leu Asp Gly Phe Phe Ser Ser Ile Arg  
180 185 190

Lys Glu Tyr Ser Val Ser Arg Val Asn Val Ser Ile Thr Leu Cys Val  
195 200 205

Leu Gly Leu Ile Asp Thr Glu Thr Ala Met Lys Ala Val Ser Gly Ile  
210 215 220

Val His Met Gln Ala Ala Pro Lys Glu Glu Cys Ala Leu Glu Ile Ile  
225 230 235 240

Lys Gly Gly Ala Leu Arg Gln Glu Glu Val Tyr Tyr Asp Ser Ser Leu  
245 250 255

Trp Thr Thr Leu Leu Ile Arg Asn Pro Cys Arg Lys Ile Leu Glu Phe  
260 265 270

Leu Tyr Ser Thr Ser Tyr Asn Met Asp Arg Phe Ile Asn Lys  
275 280 285

# Sequence Listing.ST25

<210> 3  
<211> 1405  
<212> DNA  
<213> Custom

<220>  
<221> Human cDNA sequence encoding residues 24-292 of  
11 $\beta$ -hydroxysteroid dehydrogenase  
<222> (1)..(1405)

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cctccccatt ctggggctct tcatggccta ctactactat tctgcaaacg aggaattcag    180
accagagatg ctccaaggaa agaaagtgat tgtcacaggg gccagcaaag ggatcggaag    240
agagatggct tatcatctgg cgaagatggg agcccatgtg gtggtgacag cgaggtcaaa    300
agaaactcta cagaagggtg tatcccactg cctggagctt ggagcagcct cagcacacta    360
cattgctggc accatggaag acatgacctt cgcagagcaa tttgttgccc aagcaggaaa    420
gctcatggga ggactagaca tgctcattct caaccacatc accaacactt ctttgaatct    480
ttttcatgat gatattcacc atgtgcgcaa aagcatggaa gtcaacttcc tcagttacgt    540
ggtcctgact gtagctgcct tgcccatgct gaagcagagc aatggaagca ttgttgctgt    600
ctcctctctg gctgggaaaag tggcttatcc aatggttgct gcctattctg caagcaagtt    660
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atcaatcact ctctgtgttc ttggcctcat agacacagaa acagccatga aggcagtttc    780
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cagaaatcca tgcaggaaga tcctggaatt tctctactca acgagctata atatggacag    960
attcataaac aagtaggaac tccctgaggg ctgggcctgc tgagggattt tgggactgtt   1020
ctgtctcatg tttatctgag ctcttatcta tgaagacatc ttcccagagt gtccccagag   1080
acatgcaagt catgggtcac acctgacaaa tggaaggagt tcctctaaca tttgcaaaat   1140
ggaaatgtaa taataatgaa tgtcatgcac cgctgcagcc agcagttgta aaattgttag   1200
taaacatagg tataattacc agatagttat attaaattta tatcttatat ataataatat   1260
gtgatgatta atacaatatt aattataata aaggtcacat aaactttata aattcataac   1320
tggtagctat aacttgagct tattcaggat ggtttcttta aaaccataaa ctgtacaaat   1380
gaaatttttc aatatttggt tctta                                     1405
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<210> 4

# Sequence Listing.ST25

<211> 24  
<212> DNA  
<213> Custom

<220>  
<221> DNA sequence encoding PCR primer hsd1\_24-f  
<222> (1)..(24)

<400> 4  
aacgaggaat tcagaccaga gatg 24

<210> 5  
<211> 24  
<212> DNA  
<213> Custom

<220>  
<221> DNA sequence encoding PCR primer hsd1\_292-r  
<222> (1)..(24)

<400> 5  
ttacttggtt atgaatctgt ccat 24

<210> 6  
<211> 23  
<212> DNA  
<213> Custom

<220>  
<221> DNA sequence encoding PCR primer hsdC272Sqcf  
<222> (1)..(23)

<400> 6  
tcagaaatcc atccaggaag atc 23

<210> 7  
<211> 23  
<212> DNA  
<213> Custom

<220>  
<221> DNA sequence encoding PCR primer hsdC272Sqcr  
<222> (1)..(23)

<400> 7  
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